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	Application No.	Applicant(s)	,
	10/727,176	LO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cam Y T. Truong	2162	
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due o	d ourse. THIS
1. This communication is responsive to 7/11/2007.			
2. X The allowed claim(s) is/are <u>1-2, 6, 10-12, 14-20, 23, 27-29</u>	<u>, 31-36</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do			on from the
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage applicati	on nom the
* Certified copies not received:			•
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NO tion is deficient.	TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers		948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the l	back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	ote the
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Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 	7. 🛛 Examiner's Amendo		
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allov	vance
of Biological Material	9. Other		
		Cam Y Truong Primary Examiner Art Unit: 2162	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 6/28/04, 10/29/04, 12/2/04, 7/3/06, 4/5/07.

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DETAILED ACTION

1. Applicant has amended claims 1-2, 4-37 and canceled claims 2, 38-39 and added claims 40-41 on 7/11/2007.

Claims 1-2, 4-37 and 40-41 are pending in this Office Action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with 13/9/2007 on Attorney Christopher L. Holt, Reg. No. 45,844.

In claims: Please cancel claims 4-5, 7-9, 13, 21-22, 24-26, 30, 37, 40-41.

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 (Currently amended) A data processing system including a processor, the system comprising:

a standardized data representation that is encoded on a computer-readable storage medium and that represents an object-relational data model;

a model generator that processes the standardized data representation and automatically derives, based on descriptions of objects and an indication of a collection of object-relational mappings in the standardized data representation to generate a dimensional model that corresponds to the object-relational data model, the standardized data representation includes:

a description of the objects and object relationships reflected in the objectrelational data model;

a description of persistent data store mappings associated with the objectrelational data model;

the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database;

a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the object-relational data model; and

a description of at least one data element selected from a group consisting of a class from the object-relational data model, a data member associated with a class from the object-relational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class

from the object-relational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among classes in the object-relational data model, and a measure that identifies an interesting numerical value used for generation of the dimensional model.

10. A data processing system including a processor, the system comprising:

a tagged format data schema that is encoded on a computer-readable storage medium and that represents an object-relational data model;

a model generator that processes the tagged format data schema and automatically derives, based on descriptions of objects and an indication of a collection of object-relational mappings in the tagged format data schema to generate a dimensional model that corresponds to the object-relational data model,

the tagged format data schema includes:

a description of objects and object relationships reflected in the object-relational data model;

a description of persistent data store mappings associated with the objectrelational data model;

the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database;

a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the object-relational data model; and

a description of at least one data element selected from a group consisting of a class from the object-relational data model, a data member associated with a class from the object-relational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class from the object-relational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among classes in the object-relational data model, and a measure that identifies an interesting numerical value used for generation of the dimensional model.

27. A data processing system including a processor, the system comprising:

a Extensible Markup Language (XML) data schema that is encoded on a computer-readable storage medium and that represents an object-relational data model;

a model generator that processes the data schema and automatically derives, based on descriptions of objects and an indication of a collection of object-relational mappings in the data schema to generate a dimensional model that corresponds to the object-relational data model,

the data schema includes:

a description of objects and object relationships reflected in the object-relational data model;

a description of persistent data store mappings associated with the objectrelational data model;

a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the object-relational data model;

the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database; and

a description of at least one data element selected from a group consisting of a class from the object-relational data model, a data member associated with a class from the object-relational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class from the object-relational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among classes in the object-relational data model, and a measure that identifies an interesting numerical value used for generation of the dimensional model.

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Allowable Subject Matter

4. Claims 1-2, 6, 10-12, 14-20, 23, 27-29, 31-36 are allowed.

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 1, wherein "processes the standardized data representation and automatically derives based on descriptions of objects and the indication of a collection of object-relational mappings in the standardized representation to generate a dimensional model that corresponds to the object-relational data model, the standardized data representation includes: a description of the objects and object relationships reflected in the object-relational data model; a description of persistent data store mappings associated with the objectrelational data model; the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database; a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the object-relational model; and a description of at least one data element selected from a group consisting of a class from the objectrelational data model; a data member associated with a class from the object-relational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class from the objectrelational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among classes in the object-relational data model, and a

measure that identifies an interesting numerical value used for generation of the dimensional model":

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 10, wherein "processes the tagged format data schema and automatically derives, based on descriptions of objects and an indication of a collection of object-relational mappings in the tagged format data schema to generate a dimensional model that corresponds to the object-relational data model, the tagged format data schema includes: a description of objects and object relationships reflected in the object-relational data model; a description of persistent data store mappings associated with the object-relational data model; the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database; a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the objectrelational model; and a description of at least one data element selected from a group consisting of a class from the object-relational data model; a data member associated with a class from the object-relational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class from the object-relational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among

classes in the object-relational data model, and a measure that identifies an interesting numerical value used for generation of the dimensional model"; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 27, wherein "processes the data schema and automatically derives, based on descriptions of objects and an indication of a collection of object-relational mappings in the data schema to generate a dimensional model that corresponds to the object-relational data model, the data schema includes: a description of objects and object relationships reflected in the object-relational data mode; a description of persistent data store mappings associated with the object-relational data model; a description of at least one user-designated focal point that represents a point of analysis indicated in association with data in the objectrelational data model; the indication of a collection of object-relational mappings that specify how a data member associated with a class in the object-relational data model can be filled with data retrieved from at least one table in a relational database; and a description of at least one data element selected from a group consisting of a class from the object-relational data model, a data member associated with a class from the objectrelational data model, a collection of object-relational mappings that specify how data is retrieved from a relational database, a field that uniquely identifies a class from the object-relational data model, an association relationship indicator that identifies a relationship among classes in the object-relational data model, a composition relationship indicator that identifies a relationship among classes in the object-relational

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data model, and a measure that identifies an interesting numerical value used for generation of the dimensional model".

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cam Y Truong
Primary Examiner
Art Unit 2162

9/14/2007